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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/785,104	02/16/2001	Joseph Fjelstad	TESSERA 3.0-188 DIV	7265

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EXAMINER

QUINTO, KEVIN V

ART UNIT PAPER NUMBER

2826

DATE MAILED: 06/18/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/785,104

Applicant(s)

FJELSTAD, JOSEPH

Examiner

Kevin Quinto

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

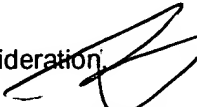
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 22 May 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 10-12, 14 and 15 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) 12, 14 and 15 is/are allowed.
- 6) ☒ Claim(s) 10 and 11 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.


NATHAN J. FLYNN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ | 6) <input type="checkbox"/> Other: _____ |

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 10 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dozier, II et al. (USPN 5,772,451) in view of Khandros et al. (USPN 5,148,266).

5. In reference to claim 10, Dozier discloses a similar device. Figure 2C illustrates a microelectronic element with a body (240) defining a front surface. There are flexible leads (231, 232, 233, 234, 235, 236) which have pad ends (231a, 232a, 233a, 234a, 235a, 236a) and tip ends (231b, 232b, 233b, 234b, 235b, 236b). The pads (not labeled) are exposed at the front surface. The leads are flexible or elastic (column 5, lines 55-60) and are understood to be independently movable with respect to the body. The leads (231, 232, 233, 234, 235, 236) are spaced apart from the front surface of the body (240). The tip ends (231b, 232b, 233b, 234b, 235b, 236b) project over the front surface of the body (240). Dozier does not explicitly state that the leads can be curved in a plane parallel to the front surface of the body (240). However it is well known in the art to curve leads in such a manner. Khandros et al. (USPN 5,148,266, hereinafter referred to as the "Khandros" reference) discloses that leads which are "curved in directions parallel to the face" of the body have "increased flexibility." Dozier discloses that flexible or elastic leads are desirable and useful for applications where the leads must conform

to non-planarities of devices to which they are being interconnected (column 5, lines 55-60 and column 17, lines 2-17). It would therefore be obvious to curve the leads in a plane parallel to the front surface of the body (240) in the device of Dozier. Figure 2C does not illustrate that the body is a wafer with a plurality of semiconductor chips.

However Dozier discloses that the body can be a semiconductor wafer (column 16, lines 28-36). It is understood that the wafer includes a plurality of semiconductor chips.

6. In reference to claim 11, Dozier discloses a similar device. Figure 2C illustrates a microelectronic element with a body (240) defining a front surface. There are flexible leads (231, 232, 233, 234, 235, 236) which have pad ends (231a, 232a, 233a, 234a, 235a, 236a) and tip ends (231b, 232b, 233b, 234b, 235b, 236b). The pads (not labeled) are exposed at the front surface. The leads are flexible or elastic (column 5, lines 55-60) and are understood to be independently movable with respect to the body. The leads (231, 232, 233, 234, 235, 236) are spaced apart from the front surface of the body (240). The tip ends (231b, 232b, 233b, 234b, 235b, 236b) project over the front surface of the body (240). Dozier does not explicitly state that the leads can be curved in a plane parallel to the front surface of the body (240). However it is well known in the art to curve leads in such a manner. Khandros et al. (USPN 5,148,266, hereinafter referred to as the "Khandros" reference) discloses that leads which are "curved in directions parallel to the face" of the body have "increased flexibility." Dozier discloses that flexible or elastic leads are desirable and useful for applications where the leads must conform to non-planarities of devices to which they are being interconnected (column 5, lines 55-60 and column 17, lines 2-17). It would therefore be obvious to curve the leads in a

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plane parallel to the front surface of the body (240) in the device of Dozier. Dozier discloses that the body (240) is an electronic component such as a probe card insert (column 18, lines 1-30).

Allowable Subject Matter

7. Claims 12, 14, and 15 are allowed.
8. The following is a statement of reasons for the indication of allowable subject matter: the examiner is unaware of any prior art which suggests a microelectronic element having flexible strip-like leads with the specific spacing from the substrate suggested by the applicant.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Quinto whose telephone number is (703) 306-5688. The examiner can normally be reached on M-F 8AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (703) 308-6601. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

KVQ
June 15, 2003